

What is claimed is:

1. A temperature detecting unit comprising:
  - a temperature detecting sensor which receives infrared rays radiated by an object, thereby detecting the temperature of said object without contact with said object;
  - a window member, which is arranged between said object and said temperature detecting sensor, and which transmits the infrared rays; and
  - a frame which holds said window member,  
wherein said window member includes a surface with a fluorination organic compound.
2. The temperature detecting unit according to claim 1, wherein said surface faces said object.
3. The temperature detecting unit according to claim 1, wherein said surface faces said temperature detecting sensor.
4. The temperature detecting unit according to claim 1, wherein said surface includes a membrane with the fluorination organic compound.
5. The temperature detecting unit according to claim 4, wherein said membrane is formed by coating a fluorocarbon resin thereon.
6. The temperature detecting unit according to claim 4, wherein said membrane is formed by spreading oil with fluorine.
7. The temperature detecting unit according to claim 1, wherein said window directly faces said temperature detecting sensor.
8. The temperature detecting unit according to claim 1, wherein said window directly faces said object.

9. The temperature detecting unit according to claim 8, wherein said window includes a plane surface facing said object.

10. The temperature detecting unit according to claim 8, wherein said window includes a lens-shaped surface facing said object.

11. The temperature detecting unit according to claim 1, further comprising a surrounding member which surrounds said temperature detecting sensor.

12. The temperature detecting unit according to claim 11, said surrounding member includes said frame.

13. The temperature detecting unit according to claim 1, further comprising a partition arranged between said object and said temperature detecting sensor.

14. The temperature detecting unit according to claim 13, wherein said partition includes said frame.

15. The temperature detecting unit according to claim 1, further comprising:  
a second window member, which is arranged between said window member and said temperature detecting sensor, and which transmits the infrared rays; and  
a second frame which holds said second window member,  
wherein said second window member includes the surface with a fluorination organic compound.

16. The temperature detecting unit according to claim 1, further comprising an airflow unit which increases airflow between said object and said temperature detecting sensor.

17. The temperature detecting unit according to claim 1, wherein said airflow unit comprises:

a ventilator which sends air between said object and said temperature detecting sensor; and

a suction member, which is arranged such that said window member is between said ventilator and said suction member, and

which sucks the air between said object and said temperature detecting sensor.

18. The temperature detecting unit according to claim 1, wherein said object is a fixing member which heats a toner image and thereby fixes said toner image on a record medium.

19. The temperature detecting unit according to claim 18, wherein said fixing member is a fixing roller.

20. The temperature detecting unit according to claim 18, wherein said fixing member is a fixing belt.

21. The temperature detecting unit according to claim 1, wherein said object is food cooked by an electric heating cooking device.

22. The temperature detecting unit according to claim 1, wherein said object is air in a room whose temperature is regulated by an air conditioner.

23. A fixing apparatus, comprising:

a fixing member which heats a toner image;

an opposite member which forms a nip between said fixing member and said opposite member, where said toner image is fixed on a record medium passing through said nip;

a temperature detecting sensor which receives infrared rays radiated by said fixing member, thereby detecting the temperature of said object without contact with said object;

a window member, which is arranged between said fixing member and said

temperature detecting sensor, and which transmits the infrared rays; and  
a frame which holds said window member,  
wherein said window member includes a surface with a fluorination organic  
compound.